

What Is Claimed Is:

1. A power-assisted steering system or power-steering system having an electric motor that drives a worm gear mechanism, the worm gear mechanism containing a composite gear wheel that is used as a worm wheel and engages with a worm, the worm wheel having a ring gear (4) connectible to a hub (3) via a first disk (2), and an annular projection (5) of the first disk (2) axially engaging with the ring gear (4), wherein the annular, axial projection (5) has a depression (6) in an axial direction, the projection (5) engaging with a depression (7) on an axial side face (8) of the ring gear (4) in a form-locked manner, or an axial projection on the axial side face (8) of the ring gear (4) engaging with the depression (6) of the first disk (2).
2. The power-assisted steering system or power-steering system as recited in Claim 1, wherein a plurality of depressions (6) are positioned on the annular projection (5) of the first disk (2), in the circumferential direction of the disk (2).
3. The power-assisted steering system or power-steering system as recited in Claim 2, wherein the depressions (6) are spaced apart from each other by the same distance (9) and form a drive-type toothed section (10).
4. The power-assisted steering system or power steering system as recited in one of Claims 1 through 3, wherein the depression (6) rectangularly passes through the annular projection (5) in the radial direction of the first disk (2).

5. The power-assisted steering system or power steering system as recited in one of Claims 1 through 3, wherein the depression (6) passes through the annular projection (5) in the radial direction of the first disk (2) while forming curved edges (11).
6. The power-assisted steering system or power steering system as recited in one of Claims 1 through 5, wherein a second disk (12) is situated on the side (13) opposite to the first disk (2) in the axial direction of the ring gear (4).
7. The power-assisted steering system or power-steering system as recited in Claim 6, wherein the second disk (12) engages in a form-locked manner with an annular projection (5) of a second axial side face (8') of the ring gear (4), the annular projection axially engaging with the ring gear (4).
8. The power-assisted steering system or power-steering system as recited in Claim 7, wherein the number and/or the shape of the depressions (6') on the second disk (12) are approximately the same as on the first disk (2).
9. The power-assisted steering system or power steering system as recited in one of Claims 1 through 8, wherein the projection is conical at the axial side faces (8, 8') of the ring gear (4).
10. The power-assisted steering system or power steering system as recited in one of Claims 1 through 9, wherein one disk (2, 12) is formed in one piece with the hub (3).
11. The power-assisted steering system or power steering system as recited in one of Claims 7 through 10, wherein

the second disk (12) is screwed or riveted to the hub (3) and/or to the first disk (2).

12. The power-assisted steering system or power steering system as recited in one of Claims 7 through 10, wherein the second disk (12) is connected to do the hub (3) and/or to the first disk (2) via friction-welding.
13. The power-assisted steering system or power steering system as recited in one of Claims 1 through 12, wherein the ring gear (4) is made of a thermoplastic or duroplastic synthetic material.
14. The power-assisted steering system or power steering system as recited in one of Claims 1 through 13, wherein the composite gear wheel (1) is part of a power-assisted steering system or power steering system of a vehicle.
15. The power-assisted steering system or power-steering system as recited in Claim 15, wherein the composite gear wheel (1) is a worm wheel of a steer-by-wire system.